We claim:

- 1. A configuration for generating an information-bearing response signal to a received electromagnetic radiation, comprising:
- a receiver for the electromagnetic radiation;
- a transducer coupled to the receiver for changing the radiation into a storable secondary energy;
- a storage device connected to said transducer for storing the storable secondary energy;
- a nonlinear element connected to said storage device for generating a pulse-shaped radio-frequency signal from the storable secondary energy when a threshold value is reached in the storage device;
- a coding element connected to said nonlinear element for impressing information on the radio-frequency signal to generate a response signal; and
- a transmitting antenna connected to said coding element for broadcasting the response signal.

- 2. The configuration according to claim 1, wherein said transducer is a heating element and said storage device is a heat storage device.
- 3. The configuration according to claim 2, wherein said storage device a pyroelectrical element.
- 4. The configuration according to claim 1, wherein said receiver is a radio receiver.
- 5. The configuration according to claim 1, wherein a photoelectric element acts as said receiver and said transducer.
- 6. The configuration as claimed in claim 5, wherein said storage device stores electrical energy.
- 7. The configuration according to claim 1, wherein a photovoltaic element acts as said receiver and said transducer.
- 8. The configuration as claimed in claim 7, wherein said storage device stores electrical energy.

- 9. The configuration according to claim 1, wherein said storage device is a capacitor.
- 10. The configuration according to claim 1, wherein said storage device is an electrochemical storage element.
- 11. The configuration according to claims 1, wherein said receiver is an infrared receiver.
- 12. The configuration according to claim 1, wherein said nonlinear element is a spark gap.
- 13. The configuration according to claim 1, wherein said nonlinear element is a diode.
- 14. The configuration according to claim 1, wherein said nonlinear element is a gas discharge tube.
- 15. The configuration according to claim 1, wherein said nonlinear element is an avalanche semiconductor element.
- 16. The configuration according to claim 1, wherein said coding element is a SAW component.

- 17. The configuration according to claim 1, wherein said coding element is a resonator configuration.
- 18. The configuration according to claim 1, wherein said coding element is a delay line.
- 19. The configuration according to claim 1, wherein said coding element is a dielectric filter.
- 20. The configuration according to claim 1, wherein said coding element is a coaxial ceramic filter.
- 21. The configuration according to claim 1, wherein said coding element is a volume transducer.
- 22. The configuration according to claim 1, wherein said coding element is an LC filter.
- 23. The configuration according to claim 1, wherein said coding element is a sensor.
- 24. A method for remotely interrogating a configuration for generating an information-bearing response signal to a

received electromagnetic radiation, which sequentially comprises:

providing a configuration;

generating an electromagnetic radiation of relatively low amplitude in an interrogating device;

transmitting the radiation to the configuration;

storing secondary energy of the radiation in the configuration;

generating a short pulse-shaped radio-frequency signal of relatively high amplitude from the stored secondary energy when a threshold value is reached;

impressing an information item on the short radio-frequency signal to generate a response signal; and

radiating the response signal.

25. The method according to claim 24, which further comprises:

storing the secondary energy as heat in a pyroelectrical element;

generating a temperature-dependent pyroelectrical voltage with the pyroelectrical element; and

generating with a nonlinear element the radio-frequency signal when a predetermined pyroelectrical voltage is reached as threshold value.

- 26. The method according to claim 24, wherein the information item is an identification code.
- 27. The method according to claim 24, which further comprises impressing the information relating to a type of an environmental parameter on the radio-frequency signal with a sensor that specifically reacts to the environmental parameter.
- 28. The method according to claim 24, which further comprises impressing the information relating to a quantity of an

environmental parameter on the radio-frequency signal with a sensor that specifically reacts to the environmental parameter.